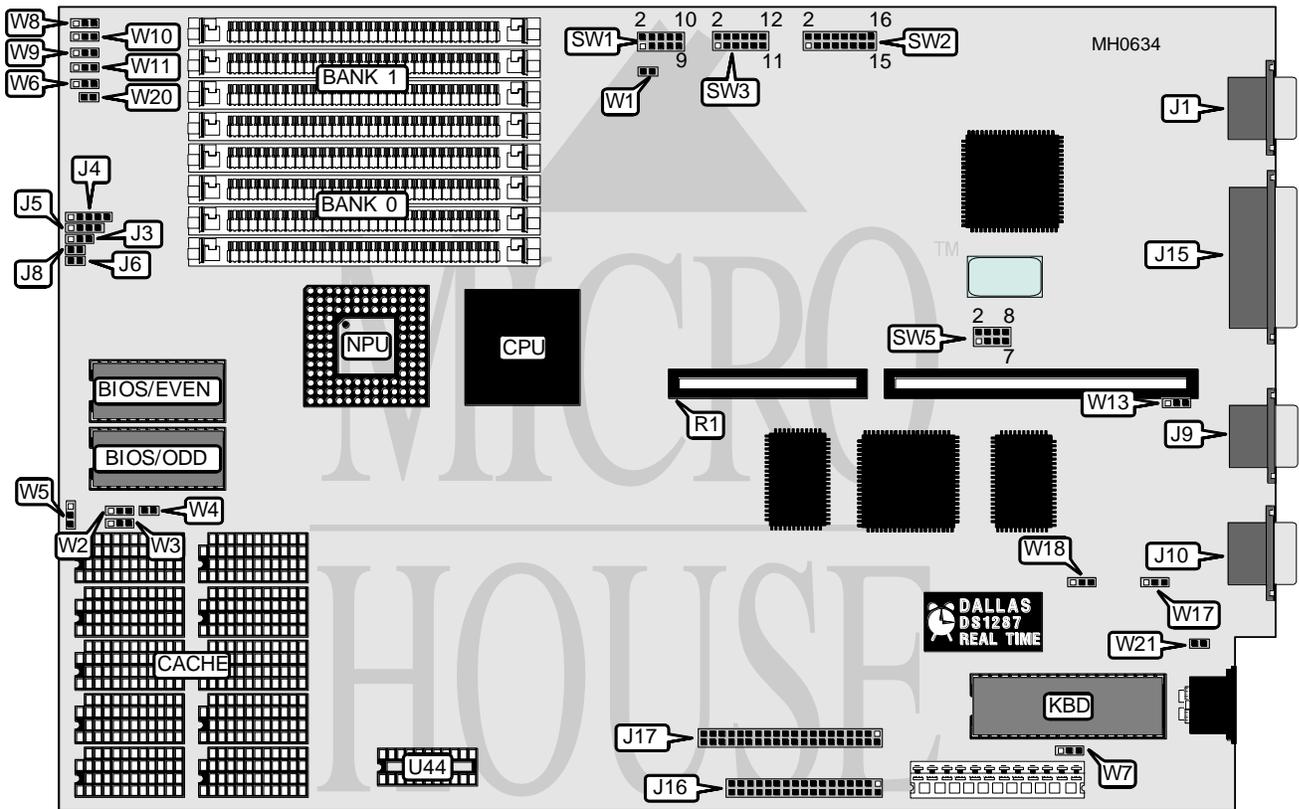


NORTHGATE COMPUTER SYSTEMS, INC.

SLIMLINE CACHE 25/33

Processor	80386DX
Processor Speed	25/33MHz
Chip Set	OPTI
Max. Onboard DRAM	16MB
Cache	64/256KB
BIOS	AMI
Dimensions	350mm x 304mm
I/O Options	Floppy drive interface, IDE interface, parallel port, serial ports (2), VGA port
NPU Options	80387/3167



CONNECTIONS			
Purpose	Location	Purpose	Location
VGA port	J1	Serial port 2	J10
Turbo LED	J3	Parallel port	J15
Power LED & keylock	J4	Floppy drive interface	J16
Speaker	J5	IDE interface	J17
Reset switch	J6	Riser card	R1
IDE interface LED	J8	Turbo switch	W6
Serial port 1	J9		

Continued on next page . . .

NORTHGATE COMPUTER SYSTEMS, INC.

SLIMLINE CACHE 25/33

... continued from previous page

USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
í Floppy drive interface interrupt (IRQ6) enabled	SW2/pins 11 & 12	Closed
Floppy drive interface interrupt (IRQ6) disabled	SW2/pins 11 & 12	Open
í Floppy drive interface DMARQ2 enabled	SW2/pins 13 & 14	Closed
Floppy drive interface DMARQ2 disabled	SW2/pins 13 & 14	Open
í Floppy drive interface DACK2 enabled	SW2/pins 15 & 16	Closed
Floppy drive interface DACK2 disabled	SW2/pins 15 & 16	Open
í Floppy drive interface enabled	SW3/pins 1 & 2	Closed
Floppy drive interface disabled	SW3/pins 1 & 2	Open
í Factory configured - do not alter	W1	Open
í Cache enabled	W4	Closed
Cache disabled	W4	Open
í BIOS type select 27512	W5	pins 2 & 3 closed
BIOS type select 27256	W5	pins 1 & 2 closed
í Monitor type select monochrome	W7	pins 1 & 2 closed
Monitor type select color	W7	pins 2 & 3 closed
í Parallel port mode select input only	W13	pins 2 & 3 closed
Parallel port mode select bi-directional	W13	pins 1 & 2 closed
í Floppy drive precompensation select standard	W17	pins 2 & 3 closed
Floppy drive precompensation select alternate	W17	pins 1 & 2 closed
í Floppy drive mode select single speed	W18	pins 1 & 2 closed
Floppy drive mode select dual speed	W18	pins 2 & 3 closed

DRAM CONFIGURATION (PAL CHIP "A" INSTALLED AT U44)		
Size	Bank 0	Bank 1
1MB	(4) 256K x 9	NONE
2MB	(4) 256K x 9	(4) 256K x 9
4MB	(4) 1M x 9	NONE
8MB	(4) 1M x 9	(4) 1M x 9

DRAM JUMPER CONFIGURATION (PAL CHIP "A" INSTALLED AT U44)					
Size	W8	W9	W10	W11	SW1
1MB	2 & 3	2 & 3	2 & 3	2 & 3	1 & 2, 5 & 6, 7 & 8, 9 & 10
2MB	2 & 3	2 & 3	2 & 3	2 & 3	1 & 2, 5 & 6, 7 & 8
4MB	1 & 2	2 & 3	1 & 2	2 & 3	7 & 8, 9 & 10
8MB	1 & 2	2 & 3	1 & 2	2 & 3	7 & 8

Note: Pins designated should be in the closed position.

DRAM CONFIGURATION (PAL CHIP "B" INSTALLED AT U44)		
Size	Bank 0	Bank 1
4MB	(4) 1M x 9	NONE
8MB	(4) 1M x 9	(4) 1M x 9
16MB	(4) 4M x 9	NONE

Continued on next page ...

NORTHGATE COMPUTER SYSTEMS, INC.

SLIMLINE CACHE 25/33

... continued from previous page

DRAM JUMPER CONFIGURATION (PAL CHIP "B" INSTALLED AT U44)					
Size	W8	W9	W10	W11	SW1
4MB	1 & 2	2 & 3	1 & 2	2 & 3	7 & 8, 9 & 10
8MB	1 & 2	2 & 3	1 & 2	2 & 3	7 & 8
16MB	1 & 2	1 & 2	1 & 2	1 & 2	5 & 6, 7 & 8, 9 & 10

Note: Pins designated should be in the closed position.

CACHE CONFIGURATION	
Size	Bank 0
64KB	(10) 8K x 8
256KB	(10) 32K x 8

CACHE CONFIGURATION		
Size	W2	W3
64KB	pins 1 & 2 closed	pins 1 & 2 closed
256KB	pins 2 & 3 closed	pins 2 & 3 closed

IDE CONFIGURATION		
Setting	W20	W21
Enabled	Open	Closed
Disabled	Closed	Open

PARALLEL PORT ADDRESS CONFIGURATION	
Address	SW3
378h	Open
3BCh	pins 11 & 12 closed
278h	pins 9 & 10 closed
Disabled	pins 9 & 10, 11 & 12 closed

PARALLEL PORT IRQ CONFIGURATION	
IRQ	SW2
IRQ7	pins 9 & 10 closed
IRQ5	pins 7 & 8 closed

SERIAL PORT 1 CONFIGURATION		
Setting	SW2	SW3
Enabled	pins 5 & 6 closed	Open
Disabled	Open	pins 7 & 8 closed

SERIAL PORT 2 CONFIGURATION		
Setting	SW2	SW3
Enabled	pins 3 & 4 closed	Open
Disabled	Open	pins 3 & 4 closed

VIDEO CONFIGURATION	
Setting	SW5
Enabled	pins 1 & 2, 3 & 4, 5 & 6 closed

Disabled	pins 7 & 8 closed
----------	-------------------